



## Air Quality Monitoring

### Fiscal Year 2010 (FY2010) Accomplishments

- Successfully collected, validated and reported data from air monitoring instruments across the state for the year.
- Completed Phase 2 of the air toxics metal monitoring study in St. Louis and assisted with a report to EPA on the results. This involved operating experimental technology at six different locations in the St. Louis area.
- Implemented EPA's new lead monitoring requirements by installing and operating equipment at 12 new locations.
- Obtained a solar energy system to provide primary power to the lead sampler at St. Joe State Park. Due to the sampler's required location, near the off-road recreational area, extending electrical service to this location was too costly.
- Worked with the chemical analysis section to comment on EPA's proposed new laboratory method for conducting lead analysis for air filters.
- Implemented cost-saving measures, estimated at \$80,000, by using continuous particulate samplers instead of filter-based particulate samplers. This ongoing project, which occurred over two years, involved major modifications to the Section's continuous particulate samplers.
- Worked with the Water Protection Program to obtain equipment and begin mercury deposition monitoring in Ashland.
- Obtained a replacement rain gauge for the existing mercury deposition site at Mingo Wildlife Refuge.
- Relocated the Van Brunt PM10 sampler to Front Street in Kansas City.
- Installed a new ozone monitoring site north of Branson.
- Participated in meetings with Air Pollution Control Program, EPA and other parties about agricultural open burning in southeast Missouri.
- Assisted Springfield/Greene County in reducing staff hours by converting PM10 High Volume samplers to Low Volume samplers.
- Assisted St. Louis City and St. Louis County air monitoring staff

- Answered questions concerning PM2.5 and PM10 samplers.
- Provided PM10 filters and gravimetric analysis while TEOM sampler was sent off for repairs.
- Answered data interpretation and submission questions; assisted St. Louis City staff in formatting data for submittal to EPA's database.
- Helped troubleshoot ozone and PM2.5 instruments.
- Certified compressed gas cylinders and air flow devices.
- Set up state contracts for cooperative purchasing by local air monitoring agencies.